METHOD AND APPARATUS TO FACILITATE CODE VERIFICATION AND GARBAGE COLLECTION IN A PLATFORM-INDEPENDENT VIRTUAL MACHINE

ABSTRACT

One embodiment of the present invention provides a system that facilitates code verification and garbage collection in a platform-independent virtual machine. The system operates by first receiving a code module written in a platform-independent language. Next, the system examines the code module to locate calls to program methods within the code module. The system then transforms the code module so that all operands remaining on the evaluation stack only relate to the called method when the method is called, thereby simplifying verification and garbage collection of the code module.

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